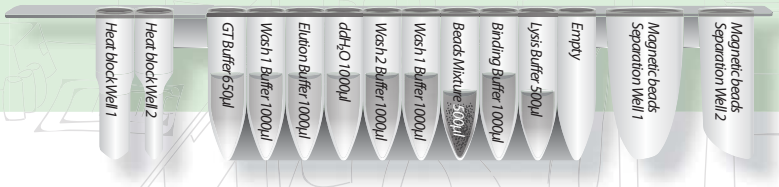
MagCore® Nucleic Acid Extraction Kits

For extraction of genomic DNA from forensic samples

MagCore® Genomic DNA Forensic Direct Kit is designed for purifying total DNA from forensic samples, such as dried blood spots, cigarette butts, cartilage, hair roots, seminal stains, and chorionic villus, using MagCore® auto-extraction instruments. Its unique feature is RBC patented technology that allows to isolate DNA automatically from solid samples without any pretreatment.

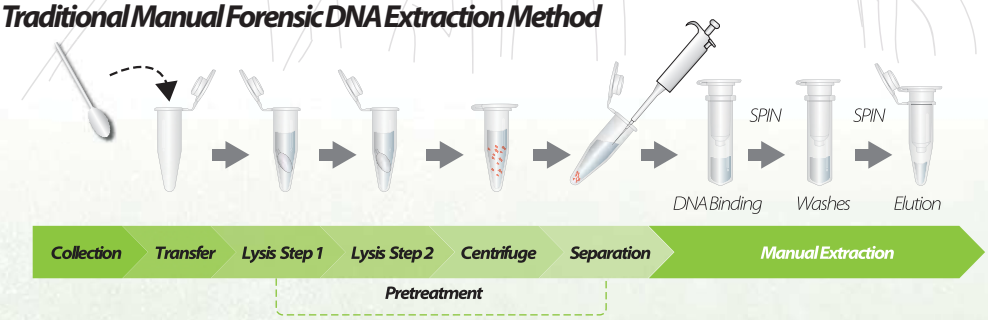
406 **MagCore® Forensic DNA Direct Kit**



Applications

It uses magnetic-particle technology to purify genomic DNA from forensic samples. The purified genomic DNA can be directly used for downstream applications such as STR, PCR and real-time PCR.

Traditional Manual Forensic DNA Extraction Method



Automated Lysis and Separation

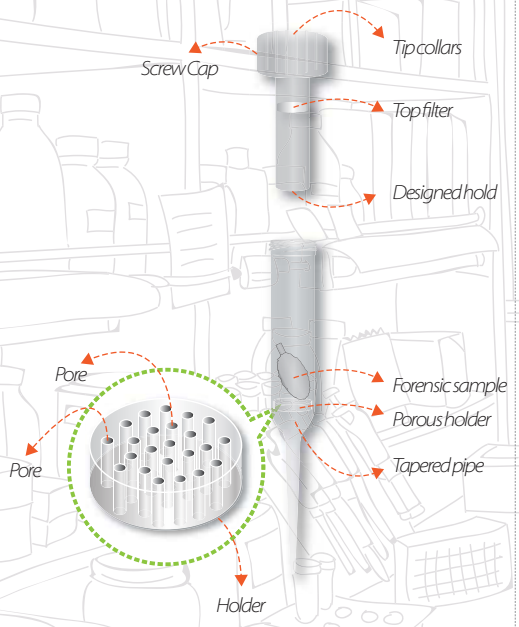
MagCore® Forensic DNA Direct Kit Method

Performance

Unique Pipette Tip Design

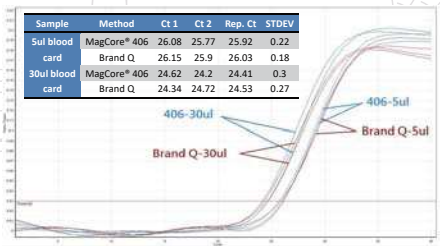
Novel Patented Tip

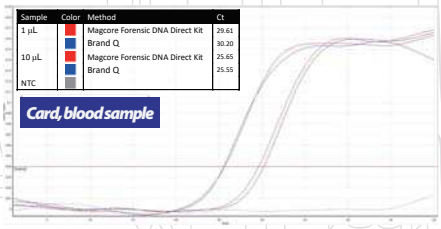
- Airtight assurance (hermetic seal)
- Minimal aerosol contamination
- Automatic separation of the solid debris

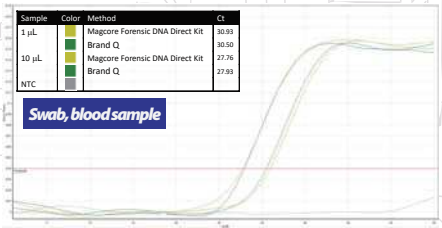


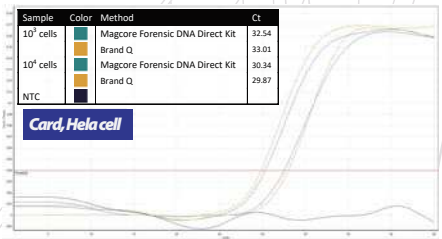
Compare the results between 406 and Q kit by qPCR

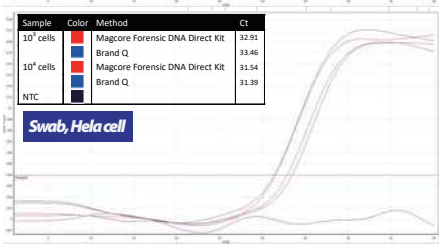
Sample	Method	Ct 1	Ct 2	Rep. Ct	STDEV
5ul blood card	MagCore® 406	26.08	25.77	25.92	0.22
	Brand Q	26.15	25.9	26.03	0.18
30ul blood card	MagCore® 406	24.62	24.2	24.41	0.3
	Brand Q	24.34	24.72	24.53	0.27











Other casework samples

Reference samples

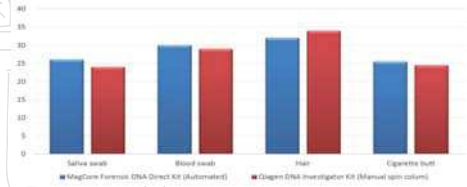


Figure: Extraction of simulated casework samples. This test was analyzed by real-time PCR with GAPDH gene primer. Saliva swab: 10 ml of saliva was applied (n=4). Blood swab: 1 ml of blood was applied and allowed to dry (n=4). Hair: 1 hair each from donor (n=4). Cigarette butt: A quarter of a filter paper (n=4).

MagCore® Automated Nucleic Acid Kits Specification

Cartridge Code	MagCore® Super/HF16 Plus/Plus II				MagCore® HF16/Compact/HF48			
	Cat No.	Cat No.	Cat No.	Running Time	Cat No.	Cat No.	Cat No.	Running Time
	36 preps	72preps	96preps		36 preps	72preps	96preps	
406	MagCore® Forensic DNA Direct Kit For extracting genomic DNA from forensic samples Contents: Pre-Filled Cartridges (Including Proteinase K), Disposable Tip & Holder Sets, Elution Tubes, FS Tip, 200 ml SP Tip Shelf life: 12months							
		MFC-03		120 min				

Enzyme Selection Guide

Product	Contents	Cat. No.
Proteinase K Set	11 mg Proteinase K, 1.25 ml PK Storage Buffer	PK011
RNase A	50 µl RNase A (50mg/ml)	RN050
	130 µl RNase A (50mg/ml)	RN130

FDA (10055336) registered and CE-IVD certified (Instruments & Reagents)
Manufactured in accordance with quality system requirements that comply with ISO 13485 standards and QSR

RBC Bioscience Corp.
www.rbcbioscience.com
info@rbcbioscience.com